(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
16 September 2004 (16.09.2004)

PCT

(10) International Publication Number
WO 2004/079703 A2

(51) International Patent Classification[7]: G09G

(21) International Application Number: PCT/JP2004/002688

(22) International Filing Date: 3 March 2004 (03.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2003-057211 4 March 2003 (04.03.2003) JP

(71) Applicant *(for all designated States except US)*: **CANON KABUSHIKI KAISHA** [JP/JP]; 30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo 146-8501 (JP).

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **GODEN, Tatsuhito** [JP/JP]; 5-8-7-C102, Katahira, Asao-ku, Kawasaki-shi, Kanagawa 215-0023 (JP).

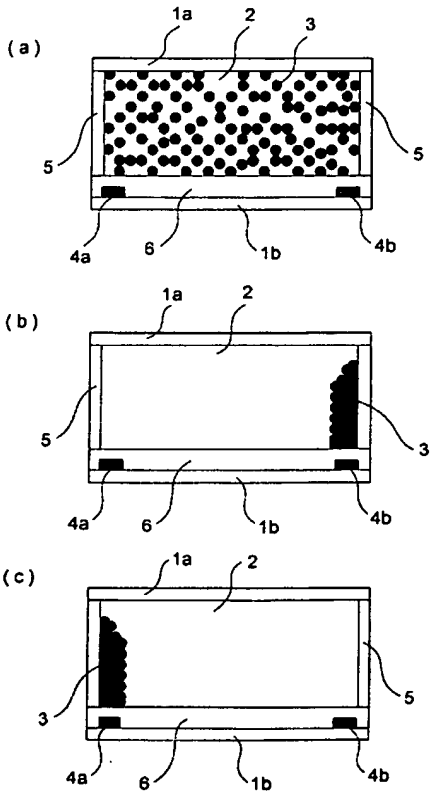
(74) Agent: YAMADA, Ryuichi; Toko International Patent Office, Hasegawa Bldg. 4F, 7-7, Toranomon 3-chome, Minato-ku, Tokyo 105-0001 (JP).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,

[Continued on next page]

(54) Title: DRIVING METHOD OF ELECTROPHORETIC DISPLAY DEVICE



(57) Abstract: An electrophoretic display device includes a plurality of electrophoretic particles and an insulating liquid which are held in a container, a first electrode and a second electrode which are disposed close to the insulating liquid, and means for applying voltages between the first electrode and the second electrode. The electrophoretic display device exhibits a display state including a first state in which the electrophoretic particle are dispersed in the insulating liquid by applying an AC voltage between the first and second electrodes, a second state in which the electrophoretic particles are attracted toward the first electrode by applying a DC voltage of one polarity between the first and second electrodes, and third state in which the electrophoretic particles are attracted toward by applying a DC voltage of the other polarity between the first and second electrodes. The second and third states are exhibited alternately.

WO 2004/079703 A2